

WHAT IS CLAIMED IS:

- 1 1. A method of initiating a multimedia session via a computing
2 arrangement, comprising:
3 forming a request for a session descriptor usable for initiating the
4 multimedia session;
5 communicating the request to a session descriptor module of the computing
6 arrangement;
7 forming a session descriptor based on a set of multimedia session
8 parameters of the computing arrangement;
9 communicating the session descriptor from the session descriptor module;
10 and
11 initiating the multimedia session using the session descriptor.
- 1 2. The method according to Claim 1, wherein the session descriptor
2 comprises a Session Description Protocol (SDP) descriptor.
- 1 3. The method according to Claim 1, wherein the set of multimedia
2 session parameters includes a Quality of Service (QoS) parameter, and wherein forming
3 the session descriptor further comprises receiving the Quality of Service (QoS) parameter
4 from a QoS module of the computing arrangement.
- 1 4. The method according to Claim 1, wherein the set of multimedia
2 session parameters includes a session security parameter, and wherein forming the session
3 descriptor further comprises receiving the session security parameter from a security
4 module of the computing arrangement.
- 1 5. The method according to Claim 1, wherein the set of multimedia
2 session parameters includes a media codecs parameter, and wherein forming the session
3 descriptor further comprises receiving the media codecs parameter from a codecs module
4 of the computing arrangement.

1 6. The method according to Claim 1, wherein the set of multimedia
2 session parameters includes a device description parameter, and wherein forming the
3 session descriptor further comprises receiving the device description parameter from a
4 device management module of the computing arrangement.

1 7. The method according to Claim 1, further comprising authenticating
2 an originator of the request using an identity parameter .

1 8. The method according to Claim 7, wherein the identity parameter
2 comprises a Public Key Infrastructure (PKI) key.

1 9. The method according to Claim 7, wherein authenticating the
2 originator of the request comprises authenticating the originator of the request via a
3 security module of the computing arrangement.

1 10. The method according to Claim 1, wherein forming the session
2 descriptor further comprises encrypting the session descriptor.

1 11. The method according to Claim 1, further comprising:
2 detecting an update in a system parameter that affects the multimedia
3 session;
4 forming a modified session descriptor based on the update; and
5 communicating the modified session descriptor from the session descriptor
6 module.

1 12. A system, comprising:
2 one or more data processing arrangements coupled to a network and
3 adapted to exchange multimedia data via the network;
4 a multimedia processing arrangement coupled to the network and adapted to
5 establish a multimedia session with the one or more data processing arrangements, the
6 multimedia processing arrangement comprising:
7 a memory for storing an application and a session descriptor
8 module; and
9 a processor coupled to the memory, the processor operable by the
10 session descriptor module for providing session descriptor data based on multimedia
11 session parameters of the multimedia processing arrangement, the processor operable by
12 the application for receiving the session descriptor data and establishing the multimedia
13 session using the session descriptor data.

1 13. The messaging system according to Claim 12, wherein the session
2 descriptor data comprises a Session Description Protocol (SDP) descriptor.

1 14. The messaging system according to Claim 12, wherein the memory
2 is arranged to store a Quality of Service (QoS) module, and the processor is operable by
3 the QoS module for providing a QoS parameter to the session descriptor module usable for
4 forming the session descriptor data.

1 15. The messaging system according to Claim 12, wherein the memory
2 is arranged to store a security module, and the processor is operable by the security module
3 for providing an authentication to the session descriptor module usable for authenticating a
4 permission of the application to receive the session descriptor data.

1 16. The messaging system according to Claim 12, wherein the memory
2 is arranged to store a security module, and the processor is operable by the security module
3 for encrypting the session descriptor data provided by the session descriptor module.

1 17. A mobile terminal wirelessly coupled to a network, comprising:
2 a transceiver configured to facilitate exchange of multimedia data via the
3 network;
4 a memory capable of storing at least one of a session descriptor module and
5 a multimedia application; and
6 a processor coupled to the memory and operable by the multimedia
7 application to establish a multimedia session via the network, the processor operable by the
8 session descriptor module to:
9 receive a request for a multimedia session descriptor;
10 determine a set of multimedia parameters of the mobile terminal;
11 form the multimedia session descriptor based on the set of
12 multimedia parameters of the mobile terminal, the multimedia descriptor usable in
13 establishing the multimedia session; and
14 communicate the multimedia session descriptor to enable
15 establishment of the multimedia session by the multimedia application.

1 18. The mobile terminal according to Claim 17, wherein the multimedia
2 session descriptor include a Session Description Protocol (SDP) descriptor.

1 19. The mobile terminal according to Claim 17, wherein the memory is
2 further capable of storing a Quality of Service (QoS) module, and the processor is operable
3 by the QoS module for providing a QoS parameter to the session descriptor module usable
4 for forming the session descriptor data.

1 20. The mobile terminal according to Claim 17, wherein the memory is
2 further capable of storing a security module, and the processor is operable by the security
3 module for providing an authentication to the session descriptor module usable for
4 authenticating a permission of the application to receive the session descriptor data.

1 21. The mobile terminal according to Claim 17, wherein the memory is
2 further capable of storing a security module, and the processor is operable by the security
3 module for encrypting the session descriptor data provided by the session descriptor
4 module.

1 22. A computer-readable medium having instructions stored thereon
2 which are executable by a computing arrangement for establishing a multimedia session
3 via a network by performing steps comprising:
4 receiving a request for a session description usable for establishing the
5 multimedia session;
6 determining a set of system parameters affecting the establishment of the
7 multimedia session at a session descriptor module in response to the request;
8 forming the session descriptor at the session descriptor module, the session
9 descriptor used for establishing the multimedia session;
10 communicating the session descriptor from the session descriptor module to
11 enable establishment of the multimedia session; and
12 initiating the multimedia session via a multimedia application using the
13 session descriptor.

1 23. The computer readable medium according to Claim 22, wherein the
2 session descriptor comprises a Session Description Protocol (SDP) descriptor.

1 24. The computer readable medium according to Claim 22, wherein
2 determining the set of system parameters comprises receiving a Quality of Service (QoS)
3 parameter from a QoS module of the computing arrangement.

1 25. The computer readable medium according to Claim 22, further
2 comprising authenticating an originator of the request using a Public Key Infrastructure
3 (PKI) key.

1 26. A method of joining a multimedia session via a computing
2 arrangement, comprising:
3 receiving a session descriptor describing the multimedia session;
4 communicating the session descriptor to a session descriptor module of the
5 computing arrangement;
6 verifying the session descriptor based on a set of multimedia session
7 parameters of the computing arrangement;
8 establishing a network connection for joining the multimedia session based
9 on the session descriptor; and
10 joining the multimedia session using the network connection.

1 27. The method according to Claim 26, wherein the session descriptor
2 comprises a Session Description Protocol (SDP) descriptor.

1 28. The method according to Claim 26, wherein the set of multimedia
2 session parameters includes a Quality of Service (QoS) parameter, and wherein verifying
3 the session descriptor further comprises receiving the Quality of Service (QoS) parameter
4 from a QoS module of the computing arrangement.

1 29. The method according to Claim 26, wherein verifying the session
2 descriptor comprises authenticating the originator of the session descriptor via a security
3 module.

1 30. A method of providing a multimedia session via a computing
2 arrangement, comprising:
3 forming a request for a multimedia configuration descriptor that describes
4 multimedia capabilities of the computing arrangement;
5 communicating the request to a session descriptor module of the computing
6 arrangement;
7 forming the multimedia configuration descriptor based on the multimedia
8 capabilities the computing arrangement;
9 communicating the multimedia configuration descriptor from the session
10 descriptor module; and
11 establishing the multimedia session using the multimedia configuration
12 descriptor.

1 31. The method according to Claim 30, wherein the multimedia
2 configuration descriptor includes a session security descriptor, and wherein forming the
3 multimedia configuration descriptor further comprises receiving the session security
4 descriptor via a security module of the computing arrangement.

1 32. The method according to Claim 30, wherein the multimedia
2 configuration descriptor includes a media codecs descriptor, and wherein forming the
3 multimedia configuration descriptor further comprises receiving the media codecs
4 descriptor from a codecs module of the computing arrangement.